



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Tod R. SMEAL, et al.

Title: GEF-H1b: BIOMARKERS, COMPLEXES, ASSAYS AND THERAPEUTIC
USES THEREOF

Appl. No.: 10/611,671

Filing Date: 07/02/2003

Examiner: Unassigned

Art Unit: 1642

INFORMATION DISCLOSURE STATEMENT
UNDER 37 CFR §1.56

Commissioner for Patents
PO Box 1450
Alexandria, Virginia 22313-1450

Sir:

Submitted herewith on Form PTO/SB/08 is a listing of documents known to Applicants in order to comply with Applicants' duty of disclosure pursuant to 37 CFR §1.56. A copy of each listed document is being submitted to comply with the provisions of 37 CFR §1.97 and §1.98.

The submission of any document herewith, which is not a statutory bar, is not intended as an admission that such document constitutes prior art against the claims of the present application or that such document is considered material to patentability as defined in 37 CFR §1.56(b). Applicants do not waive any rights to take any action which would be appropriate to antedate or otherwise remove as a competent reference any document which is determined to be a *prima facie* art reference against the claims of the present application.

TIMING OF THE DISCLOSURE

The listed documents are being submitted in compliance with 37 CFR §1.97(b), before the mailing date of the first Office Action on the merits.

Applicants respectfully request that the listed documents be considered by the Examiner and be made of record in the present application and that an initialed copy of Form PTO/SB/08 be returned in accordance with MPEP §609.

The Commissioner is hereby authorized to charge any additional fees which may be required regarding this application under 37 CFR §§ 1.16-1.17, or credit any overpayment, to Deposit Account No. 19-0741. Should no proper payment be enclosed herewith, as by a check being in the wrong amount, unsigned, post-dated, otherwise improper or informal or even entirely missing, the Commissioner is authorized to charge the unpaid amount to Deposit Account No. 19-0741.

Date

12/31/03

FOLEY & LARDNER

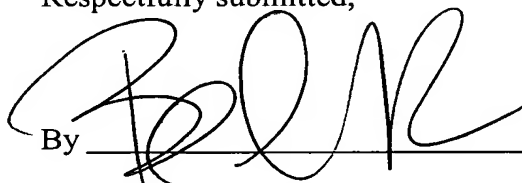
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Respectfully submitted,

By



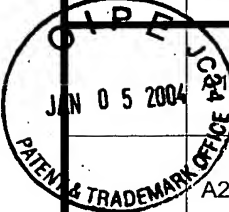
Beth A. Burrous

Attorney for Applicant

Registration No. 35,087

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| INFORMATION DISCLOSURE STATEMENT BY APPLICANT | | Application Number | 10/611,671 |
| | | Filing Date | 07/02/2003 |
| | | First Named Inventor | Tod R. SMEAL |
| | | Group Art Unit | 1642 |
| | | Examiner Name | Unassigned |
| (use as many sheets as necessary) | | Attorney Docket Number | 034536-0407 |
| Sheet | 1 | of | 3 |

| NON PATENT LITERATURE DOCUMENTS | | | |
|--|-----------------------|--|----------------|
| Examiner Initials* | Cite No. ¹ | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published. | T ⁶ |
|  | | ABO et al., "PAK4, a novel effector for Cdc42Hs, is implicated in the reorganization of the actin cytoskeleton and in the formation of filopodia," <u>The EMBO Journal</u> , 1998, pp. 6527-6540, Vol. 17, No. 22, Oxford University Press | |
| | A2 | CALLOW et al., "Requirement for PAK4 in the Anchorage-independent Growth of Human Cancer Cell Lines," <u>The Journal of Biological Chemistry</u> , January 4, 2002, pp. 550-558, Vol. 277, No. 1, The American Society for Biochemistry and Molecular Biology, Inc., USA | |
| | A3 | CHAN et al., "Expression cDNA cloning of a novel oncogene with sequence similarity to regulators of small GTP-binding proteins," <u>Oncogene</u> , 1994, pp. 1057-1063, Vol. 9, Macmillan Press Ltd. | |
| | A4 | CRAVCHIK et al., "A novel strategy for the immunological tagging of cDNA constructs," <u>Gene</u> , 1993, pp. 139-143, Vol. 137, Elsevier Science Publishers B.V. | |
| | A5 | DAN et al., "Cytoskeletal Changes Regulated by the PAK4 Serine/Threonine Kinase Are Mediated by LIM Kinase 1 and Cofilin," <u>The Journal of Biological Chemistry</u> , August 24, 2001, pp. 32115-32121, Vol. 276, No. 34, The American Society for Biochemistry and Molecular Biology, Inc., USA | |
| | A6 | DAN et al., "PAK5, a New Brain-Specific Kinase, Promotes Neurite Outgrowth in N1E-115 Cells," <u>Molecular and Cellular Biology</u> , January 2002, pp. 567-577, Vol. 22, No. 2, American Society for Microbiology | |
| | A7 | DEO et al., "Green Fluorescent Protein Mutant as Label in Homogeneous Assays for Biomolecules," <u>Analytical Biochemistry</u> , 2001, pp. 52-59, Vol. 289, Academic Press | |
| | A8 | GAUTHIER-ROUVIERE et al., "ras-induced c-fos expression and proliferation in living rat fibroblasts involves C-kinase activation and the serum response element pathway," <u>The EMBO Journal</u> , 1990, pp. 171-180, Vol. 9, No. 1, Oxford University Press | |
| | A9 | GNESUTTA et al., "The Serine/Threonine Kinase PAK4 Prevents Caspase Activation and Protects Cells from Apoptosis," <u>The Journal of Biological Chemistry</u> , April 27, 2001, pp. 14414-14419, Vol. 276, No. 17, The American Society for Biochemistry and Molecular Biology, Inc., USA | |
| | A10 | HASHIMURA et al., "Production of Rabbit Antibody Specific for Amino-Terminal Residues of Cholecystokinin Octapeptide (CCK-8) by Selective Suppression of Cross-Reactive Antibody Response," <u>Journal of Immunological Methods</u> , 1982, pp. 375-387, Vol. 55, Elsevier Biomedical Press | |
| | A11 | KRENDEL et al., "Nucleotide exchange factor GEF-H1 mediates cross-talk between microtubules and the actin cytoskeleton," <u>Nature Cell Biology</u> , April 2002, pp. 294-301, Vol. 4, No. 4 | |

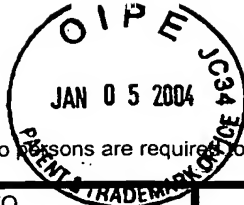
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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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| Filing Date | 07/02/2003 |
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| Group Art Unit | 1642 |
| Examiner Name | Unassigned |
| Attorney Docket Number | 034536-0407 |

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Sheet 2 of 3

NON PATENT LITERATURE DOCUMENTS

| Examiner Initials* | Cite No. ¹ | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published. | T ⁶ |
|--------------------|-----------------------|---|----------------|
| | A12 | MUSACCHIO et al., "The PH domain: a common piece in the structural patchwork of signaling proteins," <u>Trends in Biochemical Sciences</u> , September 1993, pp. 343-348, Vol. 18, The International Union of Biochemistry and Molecular Biology and Elsevier Trends Journals | |
| | A13 | NIMS et al., "Production of Hyperimmune Serum With Mature Rabbits," <u>Laboratory Animal Science</u> , 1973, pp. 391-396, Vol. 23, No. 3, American Association for Laboratory Animal Science, USA | |
| | A14 | NOBES et al., "Rho, rac and cdc42 GTPases: regulators of actin structures, cell adhesion and motility," <u>Biochemical Society Transactions</u> , 654 th Meeting Leicester, August 1995, pp. 456-459, Vol. 23, No. 3 | |
| | A15 | O'SHEA et al., "The ins and outs of cell-polarity decisions," <u>Nature Cell Biology</u> , March 2000, pp. E39-E41, Vol. 2, No. 3 | |
| | A16 | PANDEY et al., "Cloning and characterization of PAK 5, a novel member of mammalian p21-activated kinase-II subfamily that is predominantly expressed in brain," <u>Oncogene</u> , 2002, pp. 3939-3948, Vol. 21, Nature Publishing Group | |
| | A17 | QU et al., "Activated PAK4 Regulates Cell Adhesion and Anchorage-Independent Growth," <u>Molecular and Cellular Biology</u> , May 2001, pp. 3523-3533, Vol. 21, No. 10, American Society for Microbiology | |
| | A18 | REDDY et al., "Isolation and Characterization of Complementary DNA to Proliferating Cell Nucleolar Antigen P40," <u>Cancer Research</u> , April 1, 1989, pp. 1763-1767, Vol. 49, No. 7, American Association for Cancer Research | |
| | A19 | REN et al., "Cloning and Characterization of GEF-H1, a Microtubule-associated Guanine Nucleotide Exchange Factor for Rac and Tho GTPases," <u>The Journal of Biological Chemistry</u> , December 25, 1998, pp. 34954-34960, Vol. 273, No. 52, The American Society for Biochemistry and Molecular Biology, Inc. | |
| | A20 | SATO et al., "Fluorescent indicators for imaging protein phosphorylation in single living cells," <u>Nature Biotechnology</u> , March 2002, pp. 287-294, Vol. 20, No. 3 | |
| | A21 | SHAMAH et al., "EphA Receptors Regulate Growth Cone Dynamics through the Novel Guanine Nucleotide Exchange Factor Ephexin," <u>Cell</u> , April 20, 2001, pp. 233-244, Vol. 105, Cell Press | |
| | A22 | TAYLOR et al., "Nonradioactive Determination of Ras-GTP levels Using Activated Ras Interaction Assay," <u>Methods in Enzymology</u> , 2001, pp. 333-342, Vol. 333, Academic Press | |
| | A23 | YANG et al., "Androgen Receptor Specifically Interacts with a Novel p21-activated Kinase, PAK6," <u>The Journal of Biological Chemistry</u> , May 4, 2001, pp. 15345-15353, Vol. 276, No. 18, The American Society for Biochemistry and Molecular Biology, Inc., USA | |

Examiner
SignatureDate
Considered

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